

IN THE CLAIMS:

Please amend claims 1-3, 5, 15, 16, 19-21, 24, 26-28, 32, 34-36, and 41, and add new claims 43-46, as follows.

1. (Currently Amended) A method of controlling the power with which a mobile station transmits signals to a base station, comprising ~~the steps of:~~

receiving from the base station at the mobile station a power control command signal;

determining from said received power control command signal a parameter representative of the quality with which the power control command signal is received at the mobile station; and

controlling the power at which the mobile station transmits signals based on the determination ~~step~~.

2. (Currently Amended) The method as claimed in claim 1, wherein in ~~said determining step~~, a received value of said received power control command signal is determined as said parameter.

3. (Currently Amended) The method as claimed in claim 2, wherein the power control command signal as generated is indicative of a power control command having a given value, and further comprising ~~the steps of:~~

comparing said determined received value with a threshold value;
determining the given value based on said comparing ~~step~~; and
in said controlling, ~~step~~—controlling the power at which the mobile station transmits signals based on the determined given value.

4. (Previously Presented) The method as claimed in claim 1, wherein said mobile station is arranged to transmit signals to a plurality of base stations, and to receive a power control command from each of said base stations.

5. (Currently Amended) The method as claimed in claim 3, wherein the method further comprises ~~the step of~~ selecting one of said determined given values in accordance with a predetermined criteria.

6. (Previously Presented) The method as claimed in claim 2, wherein the given value of said power control command comprises one of a first value indicating that the power should be increased and a second value indicating that the power should be decreased.

7. (Previously Presented) The method as claimed in claim 6, wherein said predetermined criteria is to select the second value if at least one of said determined given values is the second value.

8. (Previously Presented) The method as claimed in claim 6, wherein said predetermined criteria is to select the first value if all of the determined given values are the first value.

9. (Previously Presented) The method as claimed in claim 6, wherein said threshold value is between said possible received values representative of first and second values.

10. (Previously Presented) The method as claimed in claim 9, wherein said threshold value is such that one of the power command given values is favored over the other.

11. (Previously Presented) The method as claimed in claim 10, wherein first value is favored over the second value.

12. (Previously Presented) The method as claimed in claim 6, wherein the first value is +1 and the second value is -1.

13. (Previously Presented) The method as claimed in claim 12, wherein the threshold value is in the range -0.6 to 0.

14. (Previously Presented) The method as claimed in claim 13, wherein the threshold value is in the range -0.25 and -0.03.

15. (Currently Amended) The method as claimed in claim 3, further comprising ~~the steps of~~ receiving at the base station a signal from said mobile station, determining the strength of the received signal from the mobile station and determining from the strength of the received signal the given value of the power control command.

16. (Currently Amended) The method as claimed in claim 5, said method comprising ~~the steps of~~:

combining the received values of said received power control command signals;

comparing the combined value and the selected value; and

on the basis of the comparison, selecting one of said combined value and the selected value and controlling the power which the first station transmits in accordance therewith.

17. (Previously Presented) The method as claimed in claim 16, wherein the one of the combined value and the selected value which is closer to representing a predetermined one of said first and second given values is selected.

18. (Previously Presented) The method as claimed in claim 17, wherein said predetermined one of said values is the second value.

19. (Currently Amended) The method as claimed in claim 1, comprising ~~the steps of~~:
outputting a value based on a received value of a currently received power control command signal and a received value of at least one previously received power control signal; and

comparing said output value and the selected value and on the basis of the comparison selecting one of said output value and the selected value and controlling the power which the mobile station transmits in accordance therewith.

20. (Currently Amended) The method as claimed in claim 19, comprising ~~the steps of~~:

summing the received value of the currently received power control signal with the received value of the at least one previously received power control command signal;

comparing the summed value with a predetermined threshold; and

outputting the determined received value or if a threshold of the summed value is crossed outputting a default value.

21. (Currently Amended) The method as claimed in claim 20, wherein the mobile station is arranged to transmit signals to a plurality of base stations, and to receive power control commands from each of said base stations, said method further comprising ~~the steps of~~:

determining the values of each of said received power control signals; and
selecting one of said determined received values, in accordance with a predetermined criteria, to be summed with the received value of the at least one previously received power control signal.

22-23. (Cancelled)

24. (Currently Amended) A method of controlling the power with which a mobile station transmits signals to a plurality of base stations, comprising ~~the steps of:~~

receiving from each of the base stations at the mobile station a power control command signal;

determining received values of said received power control command signals;

combining the determined received values of said received power control command signals; and

controlling the power with which mobile station transmits to the base station based on said combined value.

25. (Previously Presented) The method as claimed in claim 24, wherein said power control command signals as generated are each indicative of a power control command having a given value which comprises either a first value indicating that the power should be increased and a second value indicating that the power should be decreased, and if the combined value exceeds a given threshold, the power with which the mobile station

transmits to base station is one of increased or decreased and if the combined value is below the given threshold, the power with which the mobile station transmits to the base station is the other of increased or decreased.

26. (Currently Amended) A method of controlling the power with which a mobile station transmits signals to a base station, comprising: ~~the steps of;~~

receiving from the base station at the mobile station a plurality of power control command signals;

determining received values of said received power control signals;

determining whether to increase or decrease the power with which the mobile station transmits to the base station based on a received power control command signal and at least one received value for at least one previously received power control command signal.

27. (Currently Amended) The method as claimed in claim 26, comprising ~~the steps of:~~

summing a determined received value of the currently received power control command signal with a previously determined received value of the at least one previously received power control command signal;

comparing the summed values with a predetermined threshold;

determining whether to increase or decrease the power with which the mobile station transmits to the base station depending on whether or not the threshold is crossed and on the determined value of the currently received power control signal.

28. (Currently Amended) The method as claimed in claim 26, wherein the mobile station is arranged to transmit signals to a plurality of base stations, and to receive power control commands signals from each of said base stations, said method further comprising ~~the steps of~~:

determining received the values for each of said received power control command signals; and

selecting one of said determined values in accordance with a predetermined criteria as the current received value.

29. (Previously Presented) The method as claimed in claim 28, wherein said power control command signals as generated are each indicative of a power control command having a given value comprising either a first value indicating that the power should be increased or a second value indicating that the power should be decreased, and wherein the predetermined criteria is to select the received value closer to the second value.

30. (Previously Presented) The method as claimed in claim 27, wherein if the summed value crosses the threshold and the determined value of the received power is

determined to represent a power increase, the power with which the mobile station transmits to base station is decreased.

31. (Previously Presented) The method as claimed in claim 27, wherein if the summed value crosses the threshold and the determined value of the received power is determined to be represent a power increase, the power with which the mobile station transmits to base station is decreased and the summed value becomes a reset value.

32. (Currently Amended) A method for controlling the power which a mobile station transmits signals to a base station comprising ~~the steps of~~:

receiving from the base station at the mobile station a power control command signal;

determining, using a plurality of different methods, power control information from said received power control command signal; and

controlling the power with which the mobile station transmits to the base station based on the determination ~~step~~.

33. (Previously Presented) The method as claimed in claim 32, wherein the power control information obtained from one of said plurality of different methods is used to control the power with which the mobile station transmits to the base station.

34. (Currently Amended) The method as claimed in claim 32, wherein one of said plurality of different methods comprises ~~the steps of~~ determining from the received power control command signal a parameter representative of the quality with which the power control command signal is received at the mobile station, said parameter defining said power control information.

35. (Currently Amended) The method as claimed in claim 32, wherein one of said plurality of different methods comprises ~~the steps of~~:

determining the received values of a plurality of power control command signals received at said mobile station from a plurality of base stations; and

combining the determined received values for the received power control command signals to define said power control information.

36. (Currently Amended) The method as claimed in claim any of claims 32, wherein one of said plurality of different methods comprises ~~the steps of~~:

determining the received values for a plurality of power control command signals received at said mobile station from said base station; and

providing power control information based the currently received power control command signal and at least one previously received power control command signal.

37. (Previously Presented) A device for a mobile station which in use transmits signals to a base station, said device comprising:

determining means for determining from a power control command signal received from said base station a parameter representative of the quality with which the power control command is received at the mobile station; and

control means for controlling the power which the mobile station transmits signals based on the determination carried out by said determining means.

38. (Previously Presented) A device for a mobile station which in use transmits signals to a plurality of base stations, said device comprising:

means for determining received values of power control command signals received from said base stations;

means for combining the determined received values of said received power control command signals; and

means for controlling the power with which mobile station transmits to the base station based on said combined value.

39. (Previously Presented) A device for a mobile station which in use transmits signals to a base station, said device comprising:

means for determining the values of power control command signals received from said base station; and

means for controlling the power with which the mobile station transmits to the base station based on a currently received power control command signal and at least one previously received power control command signal.

40. (Previously Presented) A mobile station which in use transmits signals to one or more base stations, said mobile station comprising:

means for receiving power control commands from said one or more base stations;
and
a device according to claim 37.

41. (Currently Amended) A method of controlling the power with which a mobile station transmits signals to a base station comprising ~~the steps of~~:

receiving from the base station at the mobile station a power control command signal;

determining a received value for the received power control command signal, the determined received value representing the quality with which the power control command is received at the mobile station; and

deciding whether to increase or decrease the power at which the mobile station transmits signals on the basis of the result of the determination ~~step~~.

42. (Previously Presented) A device for a mobile station which in use transmits signals to a base station, said device comprising a controller for:

determining a received value for a power control command signal received from the base station, said determined received value representing the quality with which the power control command signal is received at the mobile station; and

deciding whether to increase or decrease the power at which the mobile station transmits signals on the basis of the result of said determination.

43. (New) A device for a mobile station which in use transmits signals to a base station, said device comprising:

a determining unit configured to determine from a power control command signal received from said base station a parameter representative of the quality with which the power control command is received at the mobile station; and

a controlling unit configured to control the power which the mobile station transmits signals based on the determination carried out by said determining unit.

44. (New) A device for a mobile station which in use transmits signals to a plurality of base stations, said device comprising:

a determining unit configured to determine received values of power control command signals received from said base stations;

a combining unit configured to combine the determined received values of said received power control command signals; and

a controlling unit configured to control the power with which mobile station transmits to the base station based on said combined value.

45. (New) A device for a mobile station which in use transmits signals to a base station, said device comprising:

a determining unit configured to determine the values of power control command signals received from said base station; and

a controlling unit configured to control the power with which the mobile station transmits to the base station based on a currently received power control command signal and at least one previously received power control command signal.

46. (New) A mobile station which in use transmits signals to one or more base stations, said mobile station comprising:

a receiving unit configured to receive power control commands from said one or more base stations; and

a device according to claim 37.